Vol. 72, pp. 155-158

PROCEEDINGS OF THE

BIOLOGICAL SOCIETY OF WASHINGTON

A NEW RACE OF NIGHTHAWK FROM THE UPPER MAGDALENA VALLEY OF COLOMBIA

BY ALDEN H. MILLER

Museum of Vertebrate Zoology, University of California

Previous studies of the birds of the upper Magdalena Valley of Colombia (Miller, Auk, 64: 351-381, 1947; *ibid.*, 60: 450-457, 1952) have shown that this semi-arid basin is the center of several racial differentiates some of which show pale coloration in one form or another (Miller, Proc. Biol. Soc. Wash., 65: 13-17, 1952). The nighthawks of the species Chordeiles acutipennis of this area have been restudied following the assemblage of comparative material that is more adequate than that previously available. This has revealed that there is a pale differentiate of this species also which breeds in the Magdalena basin.

The manifestation of reduced pigmentation in the Magdalena sample of Chordeiles acutipennis is almost entirely in the ventral plumage unlike the situation in the races C. a. aequatorialis and C. a. exilis in the arid belts of Ecuador and Perú, which are pale dorsally. The pallor is variably expressed in the six available specimens of the Magdalena population. It is most consistent in the under tail coverts by reason of the greatly reduced barring of this area, but it also is evident in the reduced width of the dark bars and stripes of the belly and breast. The light ground color of the underparts becomes very pale, particularly on the breast, in certain individuals, notably in two of the four males. One of these two is an adult and the other a first-year bird judged by the criteria for age established by Selander (Condor, 56:58-62, 1954) for this genus. Also in adults the white wing spot equals or exceeds the maximum in C. a. acutipennis and the white tail spot of the adult males does likewise. These white areas are so difficult to measure consistently and are individually so variable that statistical treatment and validity of an evident trend cannot be offered. The aggregate effect of the several, non-correlated features of paleness is such as to set off the Magdalena group rather distinctly. No one individual in the sample is without expression of one or more of these attributes which distinguish it from other populations of the species that lie nearest geographically.

The race of the upper Magdalena basin may be known as

Chordeiles acutipennis crissalis new subspecies

NOV 10 1959

(155)

Type.—Adult male, no. 120493 Mus. Vert. Zool., taken 5 kilometers north of Villavieja, 1400 feet, Huila, Colombia, on February 27, 1949, by A. H. Miller; weight 40.1 gm.; testis 5 mm. long; original no. 7334.

Diagnosis.—Similar in dark dorsal coloration to Chordeiles acutipennis acutipennis of Venezuela, the Guianas, and northern and eastern Colombia, but differs in reduced barring of crissum and under tail coverts, the bars either obsolete or the area immaculate; dark bars of underparts to varying degree narrower; ground color of underparts average paler buff. Size as in C. a. acutipennis.

Range.—Tropical Zone of the upper Magdalena Valley in the Department of Huila, Colombia.

Specimens examined.—C. a. crissalis, 6: vicinity of Villavieja, Huila, Colombia (3 ad. & &, 1 1st-yr. &; 1 ad &, 1 1st-yr. &). C. a. acutipennis, 20: Surinam (1 &); Venezuela (5 & &, 5 & &); northern Colombia, Dept. Magdalena and Dept. Norte de Santander (4 & &, 4 & &, 4 &); southeastern Colombia, Putumayo (1 &). C. a. aequatorialis, 5: coastal Ecuador (3 & &, 2 & &). C. a. exilis, 4: Perú.

Compared with *C. a. aequatorialis, crissalis* is much darker dorsally, especially in the extent of the dusky markings. In ventral coloration there is overlap between these races, although no example of *aequatorialis* closely approaches in palor the two extreme males of *crissalis*. *Aequatorialis* shows a less extreme tendency than *crissalis* to reduce the barring of the crissum. The race *exilis* is even paler dorsally than *aequatorialis*, but it does not show reduction of the crissal barring.

Chapman (Am. Mus. Novitat. No. 67: 2, 1923) has pointed out that aequatorialis is intermediate between exilis and C. a. acutipennis. Broadly speaking this is true but it is consistently and well set off from both and is not merely a segment of a cline. It is better characterized as an annectent form rather than an intergrade. Crissalis is in a sense annectent also but its combination of dark and light features of coloration suggests it is a modification independent of aequatorialis, a separate offshoot of C. a. acutipennis in which some elements of pigment reduction ventrally have gone farther than in its southern desert relatives. There is no connection of suitable habitat known or likely to be found between the Magdalena basin and coastal Ecuador, as the great Andean mountain mass with its subtropical and temperate forest belts intervenes in southern Colombia and central Ecuador.

In the Magdalena basin, nighthawks were common in the badlands north of Villavieja near our camp in 1949. They also had been found earlier at gravel patches in pastureland near town. The semiarid scrub environment here contrasts strongly with the humid tropical area in the Putumayo district where I recently took a specimen of *C. a. acutipennis* in an opening near the river. The four males taken near Villavieja were obtained in January and February and had active testes, 5 or 6 mm. in length; one female on February 9 was not laying but the other on February 5 had an enlarged yellow ovum, 4 mm. in diameter.

Grateful acknowledgment is made to Dean Amadon of the American

Museum of Natural History and to Herbert Friedmann of the United States National Museum for the opportunity to borrow and examine specimens in their charge. I am also indebted to Alexander Wetmore for drawing to my attention the need for comparing certain features of the nighthawks of the Magdalena basin.

Transmitted July 26, 1959.